

WHAT IS CLAIMED IS:

1 1. A golf club cleaning system of the type having a nozzle assembly for a
2 pressurized fluid stream, said system comprising:

3 positioning means adapted for the generally horizontal receipt and placement of a
4 plurality golf clubs with the heads thereof disposed beneath said nozzle;

5 an enclosure lid adapted for positioning over said golf clubs during the cleaning thereof
6 with said nozzle assembly and comprising a spray enclosure in conjunction therewith adapted for
7 receiving said golf clubs in said generally horizontal position;

8 means for providing a high pressure stream for discharge with said pressurized fluid from
9 said nozzle assembly;

10 means for the rectilinear movement of said nozzle assembly above said preposition golf
11 club heads positioned within said spray enclosure for receipt of said pressurized fluid; and

12 at least one rinse discharge nozzle adapted for spraying said golf club heads during said
13 rectilinear movement of said nozzle assembly across said golf clubs positioned in said generally
14 horizontal position.

1 2. The system according to claim 1, wherein the high pressure stream includes an
2 abrasive.

1 3. The system of claim 2, wherein said positioning means of said plurality of golf
2 clubs is adapted for receipt of right and left handed golf clubs

1 4. The system of claim 3, wherein said rinse discharge nozzle assembly comprises
2 at least one detergent nozzle and at least one rinse nozzle.

1 5. The system of claim 4, wherein said spray enclosure is generally trapezoidal in
2 shape.

1 6. The system of claim 5, wherein the means for the rectilinear movement of said
2 nozzle assembly further comprises:

3 a grooved belt;

4 a plurality of wheels coupled to said belt so as to impart tension to said belt; and

5 a plurality of guide wheels coupled to said nozzle assembly, said guide wheels matched
6 to the grooves of said grooved belt for imparting rectilinear movement to said nozzle assembly.

1 7. The golf club cleaning system as recited in claim 1, further comprising:

2 a pressurized fluid dispenser positioned at said pressurized fluid receiving portion and
3 arranged to spray a substantially fan-shaped pressurized fluid jet across said abrasive entrainment
4 chamber, said fluid jet having a width-wise axis and a height-wise axis, said height-wise axis
5 being measured substantially perpendicular to said width-wise axis;

6 said fluid jet having two side-edge portions, one each on either of two sides and adjacent
7 to an interior portion of said fluid jet; and

8 said fluid jet having a substantially uniform dispersion along said width-wise axis.

1 8. The golf club cleaning system as recited in claim 7, further comprising said spray
2 enclosure being substantially fan-shaped in a plane oriented to include said width-wise axis of
3 said fluid jet and perpendicularly intersecting said height-wise axis of said fluid jet, said spray
4 enclosure having interior side walls configured to substantially align, with minimum
5 interference, with outer side-surfaces of said fluid jet.

1 9. The golf club cleaning system as recited in claim 8, said spray enclosure further
2 comprising:

3 a substantially truncated triangular-shape in said plane oriented to include said widthwise
4 axis of said fluid jet and perpendicularly intersecting said height-wise axis of said fluid jet; and
5 a truncated end forming an inlet for pressurized fluid directed therein to, said spray enclosure
6 flaring outwardly from said inlet to an exit thereof along said plane thereby maintaining a
7 substantially uniform fluid dispersion across said width-wise axis.

1 10. The golf club cleaning system as recited in claim 9, further comprising said spray
2 enclosure having top and bottom walls that converge toward one another from said inlet to said
3 exit along said height-wise axis for focusing said fluid jet and thereby facilitating said
4 maintenance of said substantially uniform fluid dispersion across said width-wise axis.

1 11. The golf club cleaning system as recited in claim 10, further comprising a shut-off
2 valve arranged across said access port for permitting, prohibiting and adjusting an abrasive load
3 drawable into said abrasive entrainment chamber.

12. A high pressure entraining assembly for a pressurized fluid stream, said assembly comprising:

a pressurized fluid receiving portion adapted to accommodate a pressurized fluid dispenser;

an abrasive entrainment chamber oriented to accept pressurized fluid jetted thereacross from the pressurized fluid dispenser, said abrasive entrainment chamber adapted to establish a venturi suction responsive to pressurized fluid being jetted thereacross;

an access port in fluid communication between said abrasive entrainment chamber and an abrasive metering assembly, said access port adapted to permit suction of abrasive into said abrasive entrainment chamber for entrainment in a pressurized fluid being jetted thereacross;

said abrasive metering assembly comprising a ball valve positioned at a juncture between an air intake, an abrasive supply and said access port for controlling fluid communication therebetween; and

a ball member of said ball valve being adapted to regulate an amount of abrasive permitted to be deployed from said abrasive supply into air taken up through said air intake.

13. The assembly as recited in claim 12, wherein said air intake further comprises: a variably adjustable closure member adapted to increase and decrease air amounts permitted to be drawn through said air intake by rotation of said closure member.

14. The assembly as recited in claim 13, wherein said closure member further comprises:

3 a threaded cylindrical portion adapted to be threadedly received in a tapped receiver in
4 said abrasive metering assembly; and

5 at least one inlet aperture extending through a side wall of said closure member and
6 arranged to have a degree of openness adjusted by rotation of said closure member.

1 15. The assembly as recited in claim 14, said abrasive metering assembly further
2 comprising a housing body having an abrasive supply inlet extending therethrough and arranged
3 to communicate with an abrasive inlet aperture through said ball member of said ball valve when
4 said abrasive entraining assembly is in an abrasive dispensing configuration.

1 16. The assembly as recited in claim 15, said ball member further comprising: an
2 open cylinder extending therethrough and arranged to align with said abrasive supply inlet in an
3 abrasive blocking configuration; and said open cylinder arranged to form a flow-through channel
4 across said abrasive metering assembly in an abrasive dispensing configuration.

1 17. The assembly as recited in claim 16, further comprising: said inlet aperture
2 extends through a wall of said open cylinder and is arranged to dispense abrasive into said
3 abrasive entraining assembly when said abrasive metering assembly is in an abrasive dispensing
4 configuration.